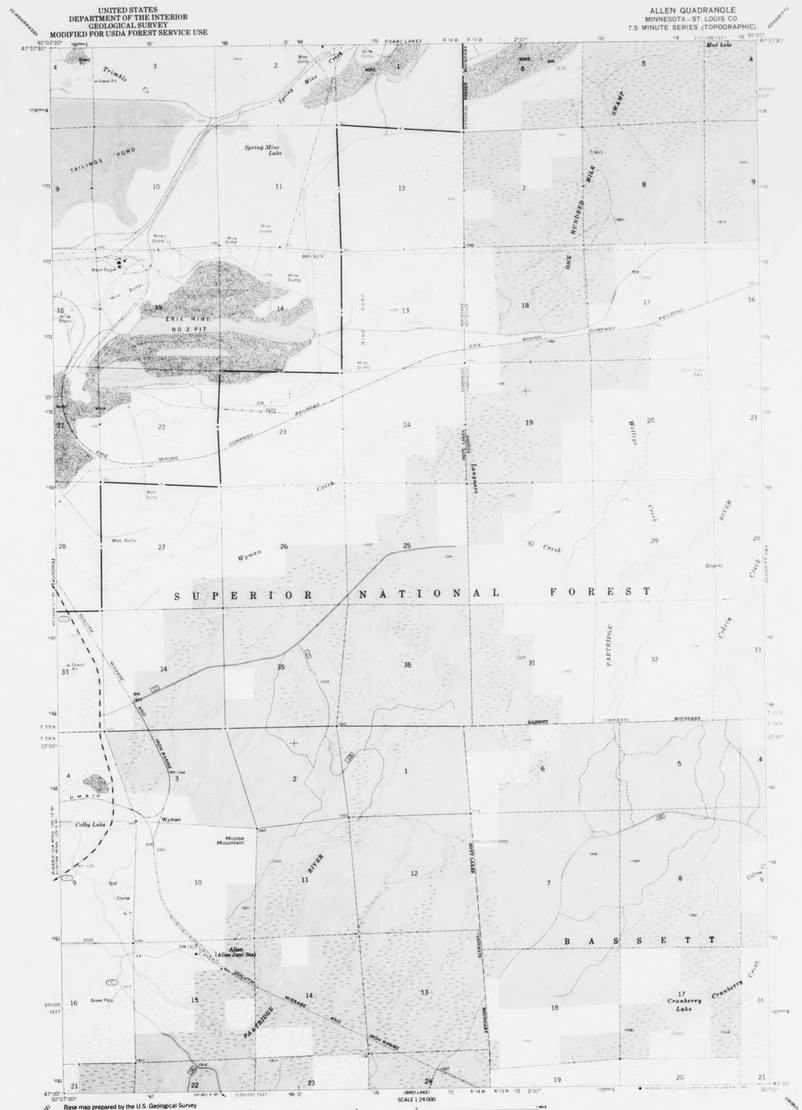
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MODIFIED FOR USDA FOREST SERVICE USE

ALLEN QUADRANGLE
MINNESOTA—ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Base map prepared by the U.S. Geological Survey

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1947. Field checked 1949. Revised from aerial photographs taken 1961. Field checked 1962

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Modification to USGS base map by the Geomorphonics Service Center from 1981 aerial photography and 1983 correction guides furnished by the Eastern Region

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

LEGEND

National Forest Boundary	Primary Highway
National Forest Land as of 1983	Secondary Highway
TOWNSHIP AND SECTION LINE CLASSIFICATION	Improved Light Duty
Surveyed, Location Reliable	Unimproved Dirt
Surveyed, Location Unreliable	Trail
Road, Location Approximate	
Trail, Location Approximate	

U.S. Highway	
State Highway	
County Highway	
Forest Road	
Forest Trail	

SUPERIOR NATIONAL FOREST QUADRANGLE LOCATION DIAGRAM

Copies of this map are available for purchase at SUPERIOR NATIONAL FOREST HEADQUARTERS 515 Ave. A at 5th Duluth, Minnesota 55801

ALLEN, MINN.
47092-E1-TF-024
1962
PHOTOREVISED 1984
DMA 7574 II SE—SERIES V574

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DEPARTMENT OF THE INTERIOR
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AURORA QUADRANGLE
MINNESOTA–ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Base map prepared by the U.S. Geological Survey
Control by USGS and NOS / NOAA

Topography by photogrammetric methods from aerial photographs taken 1947. Field checked 1949. Revised from aerial photographs taken 1961. Field checked 1962

Depth curves compiled from charts furnished by Minnesota Department of Conservation

Polyconic projection. 1927 North American Datum
10,000 foot grid based on Minnesota coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Modification to USGS base map by the Geomatronics Service Center from 1981 aerial photography and 1983 correction quides furnished by the Eastern Region

AURORA, MINN.
47092-E2-TF-024
1962
PHOTOREVISED 1984
DMA

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UNITED STATES
DEPARTMENT OF THE INTERIOR
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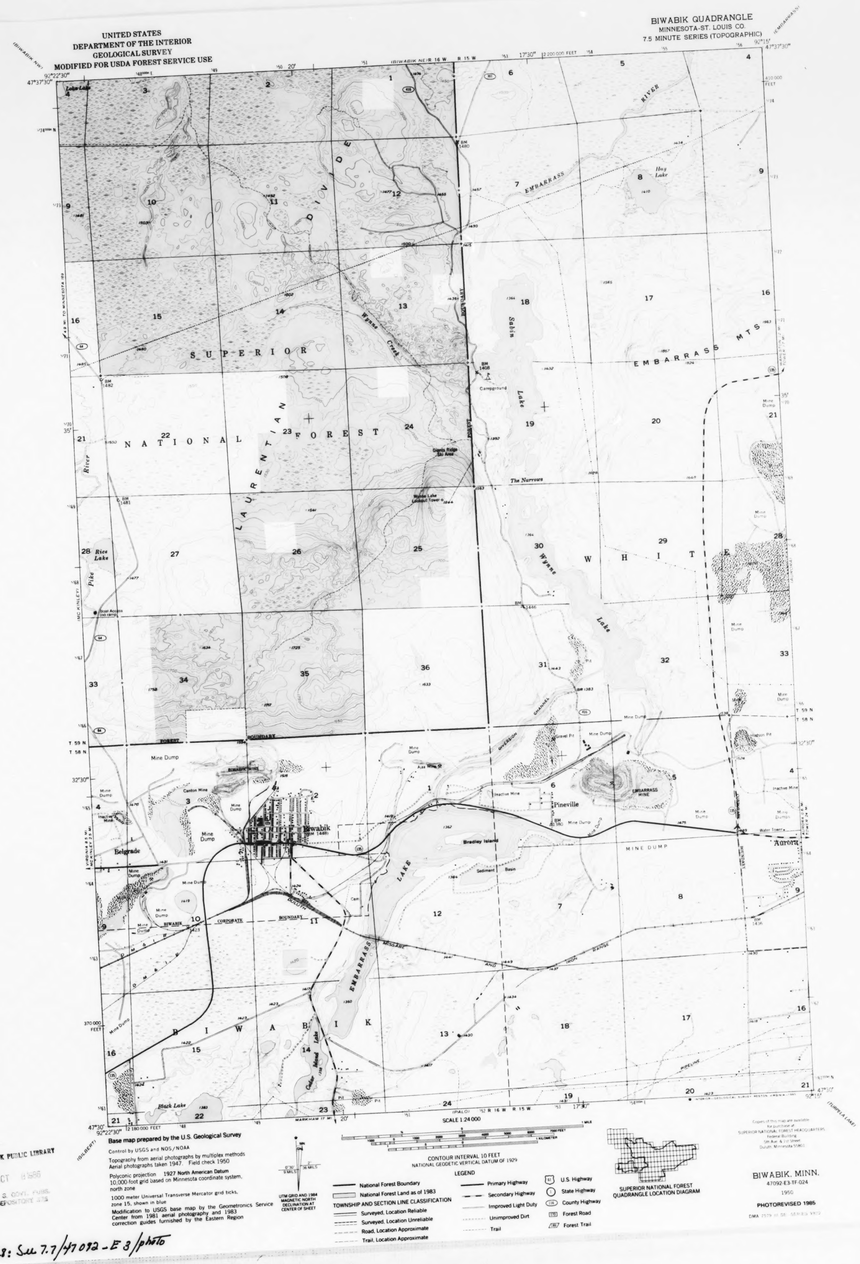
BIWABIK QUADRANGLE
MINNESOTA-ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Base map prepared by the U.S. Geological Survey

Control by USGS and NOS/NOAA

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1950

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Minnesota coordinate system, north zone

1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Modification to USGS base map by the Geocartronics Service Center from 1981 aerial photography and 1983 correction guides furnished by the Eastern Region

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

TOWNSHIP AND SECTION LINE CLASSIFICATION
- National Forest Boundary
- National Forest Land as of 1983
- Surveyed, Location Reliable
- Surveyed, Location Unreliable
- Road, Location Approximate
- Trail, Location Approximate

LEGEND
- Primary Highway
- Secondary Highway
- Improved Light Duty
- Unimproved Dirt
- Trail
- U.S. Highway
- State Highway
- County Highway
- Forest Road
- Forest Trail

SUPERIOR NATIONAL FOREST
QUADRANGLE LOCATION DIAGRAM

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the Distributor of
SUPERIOR NATIONAL FOREST HEADQUARTERS
Federal Building
515 Rice St. (U.S. Hwy. 53)
Duluth, Minnesota 55803

BIWABIK, MINN.
47092 E3 15'-024
1950
PHOTOREVISED 1985
DMA 7075-II-SE-SERIES V882

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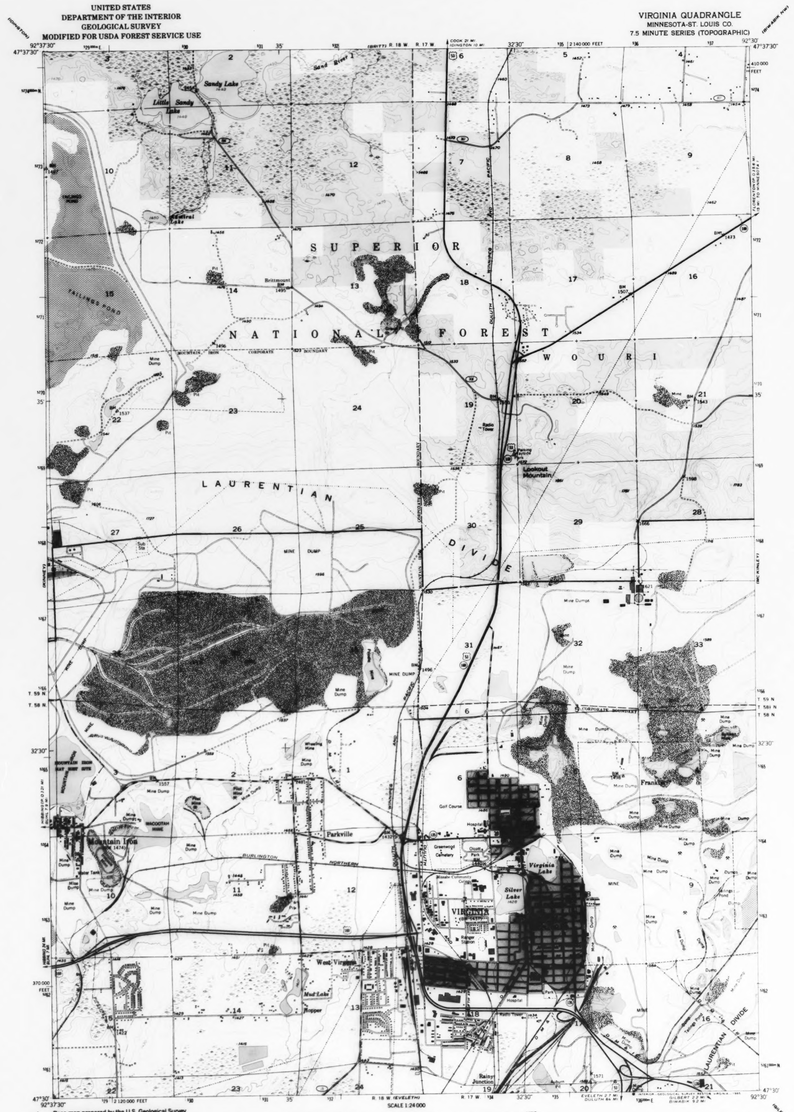
VIRGINIA QUADRANGLE
MINNESOTA-ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)


SUPERIOR
NATIONAL FOREST
LAURENTIAN DIVIDE
Sand River
Sandy Lake
Little Sandy Lake
Fairings Road
Mountain Iron
Parkville
West Virginia
Mud Lake
Virginia
Silver Lake
Rainy Junction
Laurentian Mountain
Franklin
Golf Course
Mine Dump
Wash Plant
Pit
Dump
Cemetery
Church
School
Tank
Quarry
Reservoir
Gravel Pit
Airport
Hospital
Ruins
Lookout Tower
Fire Tower
Campground
Recreation Area
Picnic Area
Boat Ramp
Boat Launch
Landing Strip
Windmill
Wayside Park
Rest Area
Trailer Park
Trailer Court
Mobile Home
Mobile Home Park
Mobile Home Court
Mobile Home Park
Mobile Home Court
Mobile Home Park
Mobile Home Court

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
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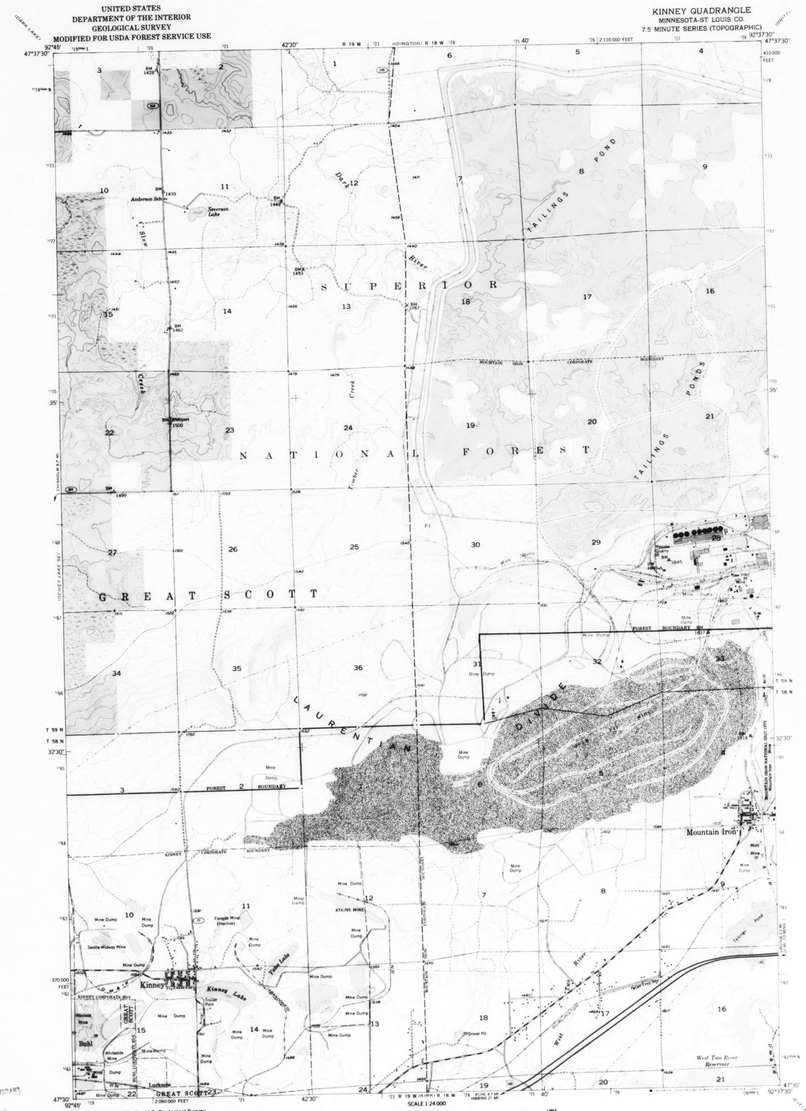
KINNEY QUADRANGLE
MINNESOTA-ST LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Base map prepared by the U.S. Geological Survey
Control by USGS and NOS/NOAA
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1951
Polyconic projection. 1927 North American Datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue
Modification to USGS base map by the Geometronics Service Center from 1981 aerial photography and 1983 correction survey furnished by the Eastern Region

SCALE 1:24 000
CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

LEGEND
National Forest Boundary
National Forest Land as of 1983
TOWNSHIP AND SECTION LINE CLASSIFICATION
Surveyed, Location Reliable
Surveyed, Location Unreliable
Road, Location Approximate
Trail, Location Approximate
Primary Highway
Secondary Highway
Improved Light Duty
Unimproved Dirt
Trail
U.S. Highway
State Highway
County Highway
Forest Road
Forest Trail

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SUPERIOR NATIONAL FOREST QUADRANGLE LOCATION DIAGRAM

KINNEY, MINN.
47092 E6-TF-024
1951
PHOTOREVISED 1985
DMA 7478 II SW-SERIES V872

A13.28: Su 7/7/47092-E6/photo.

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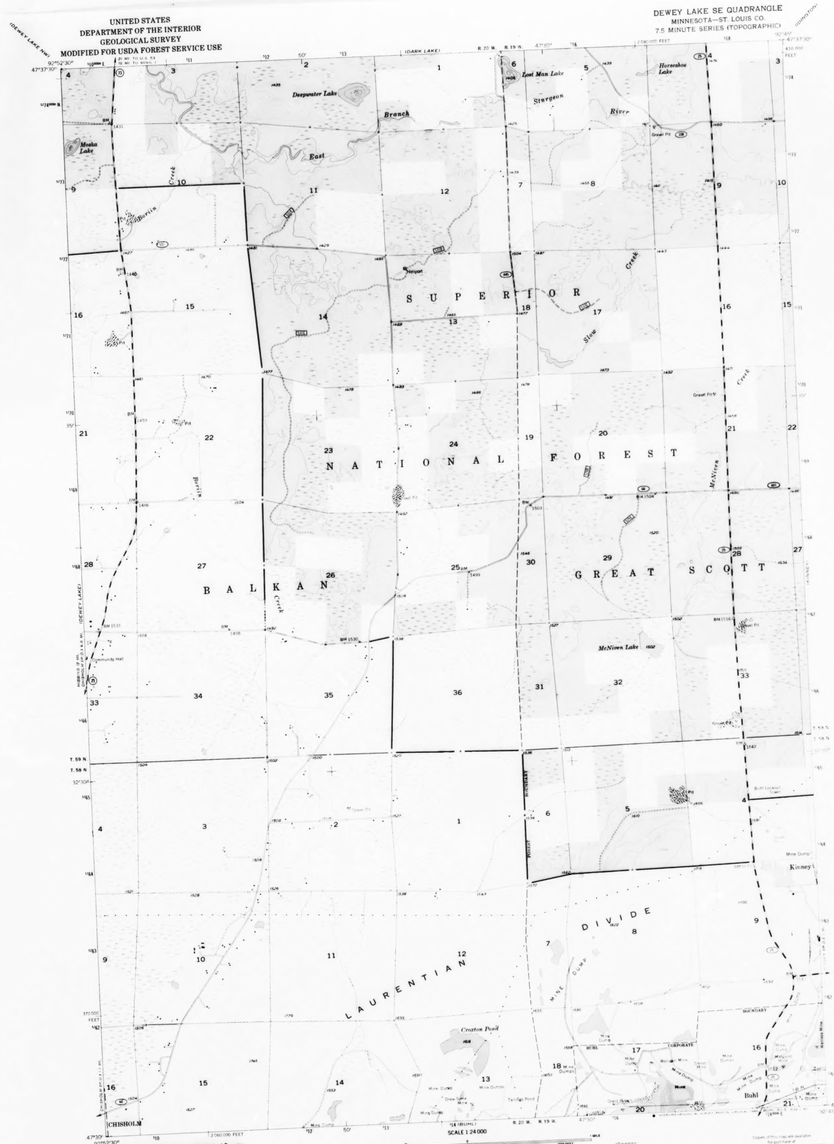
DEWEY LAKE SE QUADRANGLE
MINNESOTA—ST. LOUIS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



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Base map prepared by the U.S. Geological Survey
Control by USGS and NOS/NOAA

Topography from aerial photographs by Kelsh plotter
Aerial photographs taken 1947. Field check 1955

Depth curves compiled from charts furnished by Minnesota Department of Conservation

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Minnesota coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

Modification to USGS Base map by the Geomechanics Service Center from 1981 aerial photography and 1983 correction guides furnished by the Eastern Region

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

LEGEND

TOWNSHIP AND SECTION LINE CLASSIFICATION
- National Forest Boundary
- National Forest Land as of 1983
- Surveyed, Location Reliable
- Surveyed, Location Unreliable
- Road, Location Approximate
- Trail, Location Approximate

- Primary Highway
- Secondary Highway
- Improved Light Duty
- Unimproved Dirt
- Trail

- U.S. Highway
- State Highway
- County Highway
- Forest Road
- Forest Trail

SUPERIOR NATIONAL FOREST QUADRANGLE LOCATION DIAGRAM

DEWEY LAKE SE, MINN.
47092 E7 TF-024
1955
PHOTOREVISED 1985
DMA 7479 II SE—SERIES V872

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